GRAPHY DEVISION

DEDUTREMENTS FOR ORR READING PANEL

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May 1958 All Components D/GG/RR

Mapping Data, Map Enclosures, General Studies

A. Mapping Data

In addition to other topical requirements, the Geography Division has special requirements within the field of mapping. The following subjects form a general guide; all information is desired:

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1.	Mepping organizations; geographic and geologic institutes and societies	 (1) History (2) Present organization (3) Surveying work under way (4) Lists of publications
2.	Competency of agencies or individuals in mapping field	
3.	Reliability of particular maps	(1) Corrections (2) Source materials (3) Dates; revisions (4) Criticisms
l ₁ .	Sources used in map compilations	(1) Agencies (2) Surveys (3) Other maps
5.	Surveys	(1) Types (2) Dates (3) Plans (4) Revisions (5) Reliability
6.	Mapping programs and mapping dericiencies	 Programs under way and projected Areas inadequately mapped Weaknesses in existing maps
7.	Geodetic data	(1) Diagrams of triangulation nets (2) Control points (lists) (3) Gravimetric stations/points
8.	Aerial photography	(1) Extent (2) Types (3) Dates (4) Plans (5) Reliability (6) Use in mapping
9.	Mapping methods	(1) Improvements

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(2) Local variations

Map Data, Man Enclosurest

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10.	Flace names	(1) Lists, gazetteers (2) Changes (3) Transliteration methods (4) Local usage
11.	Personnel	(1) Geographers (2) Cartographers (3) Explorers, etc.
12.	Expeditions	1) Surveying 2) Scientific 3) Exploring
13.	Map collections	1) Location 2) Content 3) Use
<u> </u>	Map procurement	(1) By U.S. agencies (2) By other countries
	Transmittals of:	(1) Maps (2) Map indexes (3) Map catalogs (4) Atlases

B. Map Enclosures

Therever possible, original map enclosures should be attached to the copy of any report sent through the Geography Division on routing. However, please route all reports to which maps were attached -- even if map does not accompany the copy in hand.

C. General Studies

Route all reports or studies containing information that describes areas, analyzes regional or topical problems, gives economic developments or trends, and similar broad treatments.

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I. Geodesy, Gravimetry and Cartography

Topical Outline Guide

Following is a guide to subjects on which there is need for general information or specific data that applies to the USSR, the Satellites, or any other area closely associated with the Soviets in interest or activities. Emphasis should be placed on postwar information and data. Particular attention should be directed towards the reporting of all Soviet "scientific" activities and 25X1C4b those sponsored or supported by the Soviets, including any information exchange programs of areas peripheral to the USSR.

25X1C4b

1. Geodesy

Triangulation (all orders)
Traverse (Poligonometriya; Russian)
Adjustment of observations
Data (Pulkovo, Svobodny)
Measurement of base lines
Measurement of long arcs
Determination of earth's radius from arc measurement
Intercontinental ties with USA via Alaska
Extension of Soviet datum into other countries
Theodolites, surveying apparatus and instruments
Redar and Shoran (or equivalent) methods in surveying

2. Astro-Geodesy LaFlace stations
Azimuth determination
Astronomic coordinates of position
Longitude determination
Latitude determination, variation of latitude
Standards of accuracy in astro-measurements
Time, signals, time service
Tratruments in use in astronomic and time
observations
E-lipse activities
Livar photography
Occulation of stars

3. Gravimetry

World program planned by USSR
Gravity stations in USSR
factiatic topographic reductions
Gravity measuring instruments for use on land
Gravity measuring instruments for use at sea
Gravimetric anomalies (free air, Bouguer)
Gravity in relation to guided missiles and
earth satellite
Gravity requirements for missile systems

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4. Leveling

Determination of mean sea level Desum for leveling (Kronstadt) Leveling instruments

Refraction corrections necessary to leveling

5. Cartography

Compilation units (Aerogeodezicheskiye Predpriyatiya)

Wen publishing plants (Kartograficheskiye Fabriki, and Kartograficheskiye Prodpriyatiye of ministries)

Topographic map series: large- and small-scale Plans for map production, domestic and foreign

Sheet lines for topographic maps

Saviet map symbols

Security provisions in guarding mapping data and source materials

Map compilation instruments

6. Photogrammetry

Plans for USSR coverage

Hans for securing necessary ground control

Air-photo triangulation

7. Key Words,
Phrases, and
Topics

Deflection of the vertical (station error) Ellipsoid of reference (Clarke 1866, Bessel, International, Krasovskiy)

Triaxial ellipsoid

Goold

Unculations of the geoid

Solar eclipse method of connecting data Star occulation method of connecting data

Geodetic control (geodetic network)

Geodetic control (positioning) for guided missiles

Isostasy

Gauss-Erueger projection

Electronic and optical methods of distance measurement

S-E-C-R-E-T

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II. Antarctica -- Activities by All Countries

- A. Plans and Programs (1) IGY (2) Academy of Sciences (all countries) (3) Governmental (4) Non-Governmental B. Field Activities and Opera-(1) Bases -- Temporary and permanent (2) Expeditions -- Land, air, and sea tions (3) Explorations (4) Equipment, including instruments (5) Polar navigation techniques (6) Personnel (7) Maintenance and supply (8) Colé weather survival. (9) Polar logistics and support (10) Transportation -- Sea, air, surface C. Research Activities (1) Surveys -- Mapping and charting (geodesy, gravimetry, cartography) (2) Aerial photography (3) Meteorology (4) Oceanography 5 Topography -- Landforms, iceforms, crainage, sub-ice relief, vegetation. outcrops (nunataks) (6) Geology (7) Resources, including whale, seal, ilsh, minerals (8) Glaciology (9) Polar navigation problems (10) Environmental protection problems (11) Satellite observations and rocket operations D. Folitical (1) Claims and sovereignty (2) International relations, disputes (3) U.N. activities (4) Reported military activities (5) Demilitarization, peaceful uses 6 Administration (7) Problems of international law (8) Evolution of policies
 - Exchanges (1) Personnel, observers (2) Data, publications

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S-E-C-R-E-T

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F. Whaling

- (1) Open seasons
- (2) Quotas
- (3) Catch (4) Oil production
- (5) Vessels and methods; factories; eatcher boats
- (6) Conservation
- (7) International conventions, conferences

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771. Western Hemisphere

A. Natural Featur	Α.	atural res	atures	3
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1.	Terrain	All information	(1)	Plains, valleys, mountains, passes, caves, voicanoes, beaches, coastlines
			(2)	Physiographic (geomorphic)
				Spot elevations
				Natural disasters such as
			, ,	earthquakes, volcanic erup-
				tions, floods, landslices
2.	Drainage	All information	(1)	Courses of rivers, perennial or intermittent
			(p)	Nature of flow
			4 7	Periods of high and low water
			d	Potability of water
				Marshes and svemps
				Subsurface drainage
				Water supply, springs, etc.
3.	Vegetation	All information	(1)	General information on
	•		9 - 5	vegetation zones
			(2)	Types of timber trees and their location
			(3)	Forest reserve areas
			(4)	Edible plants and their
				distribution
			(5)	Poisonous plants and their
				distribution
<u> 3</u> 4	Soils	General information.	(1)	Distribution of soil types
		We would chemistry,		Conservation and stabilization
		structure or gross	,	of soils: tree belts, grasses
		sections		
5.	Geology	General information	(1)	Surface areal geology
and of	· 🛶			Unexploited mineral reserves
				Water table depths
				•
6.	Climate	All descriptive and		Climatic regions
		statistical deta		Seasonal descriptions
•		which would aid in		Temperature
		the climatic analysis		Precipitation
		ož sn srea		Winds, air masses
			(O)	Visibility, cloudiness

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III Western Hemisphere

B. Cultural Features

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and internal

1.

Transportation and Communications				
8.	Roads	All information except volume of traffic, equipment, grades, axle load	(2) (3) (4) (5)	Alignment Surface, foundation, width Seasonality Bridges, tunnels, ferries Distances Construction under way; proposed plans
b.	Railroads	All information except volume of traffic, weight of rails, grades, curver	(2) (3) (4) (5) (6) (7) (8)	Alignment, trackage Guage; and interchange points Electrification Bridges, tunnels, ferries Stations, terminal points, timetables Sidings, passing loops, marshalling yards Ownership Distances Construction under way and plans Abandoned lines
e.	Inland waterways: canals, navigable rivers, and lakes	All information	(2) (3) (4) (5)	Alignment Minimum widths and depths Seasonality Location of locks Ownership Location of docks
₫.	Oil, gas, and water pipelines	All information except details of servicing and operations	(2) (3) (4)	Alignment Surface or underground Size Pumping and booster stations Ownership
boundaries,		All information (including Treaty. basis for and	(1)	Boundary locations; status, definition, delimitation, demarcation, recognition

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by US

(2) Boundary changes (3) Boundary problems

(4) Changes in administrative divisions or capitals

description of

boundaries !

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III. Western Hemisphere

			 (5) Special administrative divisions (6) Sovereignty status (independent nation, colony, protectorate, etc.) (7) Territorial waters; marginal seas (8) Territorial claims
3.	Population	All information except unofficial estimates	 Statistics by small or medium-sized units Distribution and density; movement of people; change in patterns Ethnography; race, nationality, tribe, religion, language Census programs Health: incidence of disease Colonization; settlements
4.	Agriculture and forest crops	Broad treatment, trends	 Annual reports Agricultural projects: irrigation, drainage, colonization, reclamation Systems of land tenure Land use
5.	Minerals, including petroleum	All information except technical problems in production	 Mine sites and oil fields; installations Annual tonnage and average grade of ore; oil yields Processing plants, locations Services: water supply and power supply; loading facilities

6. Other occupations: commercial fishing, lumbering

All information exclude individual sawmills

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(5) Transportation facilities

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7•	Power	Information on major plant locations and dems only; no small industrial power plants	 Hydro-electric plants Thermo-electric plants Construction projects Regional developments Dams
8.	Water supply	All information of a general nature	 Reservoirs Purification works Dam sites
9.	Cities and towns	All descriptive or analytical information except individual buildings	
10.	Military data	Only general information	 Military administrations Military zones Occupation zones